

20080913.ba v04\_n208.bam.20080913

>From ???@??? Sat Sep 13 17:50:37 2008 -0500  
Date: Sat, 13 Sep 2008 17:49:49 CST  
From: Old Tube Radios <boatanchors@theporch.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: BOATANCHORS digest 4208  
Message-Id: <20080913224733.05C8510B16B@srvr1.theporch.com>

BOATANCHORS Digest 4208

Topics covered in this issue include:

- 1) RE: HP 200C/CD  
by n6nae@ix.netcom.com
- 2) Re: HP 200C/CD  
by "Arden Allen" <gumbear@pacbell.net>
- 3) Re: HP 200CD  
by stuck in 50s <polepeeg@aa4rm.ba-watch.org>
- 4) Re: HP 200CD  
by "Arden Allen" <gumbear@pacbell.net>
- 5) Re: [Boatanchors] Atalanta Power  
by Dan Arney <hankarn@pacbell.net>
- 6) Ham exams.  
by "Ken" <n5cm@rtconline.com>
- 7) Re: Ham exams.  
by Robert Lawson <w4rl@bellsouth.net>
- 8) Re: [Boatanchors] Atalanta Power  
by Scott Robinson <spr@earthlink.net>
- 9) Re: [Boatanchors] Atalanta Power  
by WA5CAB@cs.com
- 10) Re: Ham exams.  
by "Sandy" <ebjr37@charter.net>
- 11) Re: [Boatanchors] Atalanta Power  
by "Sandy" <ebjr37@charter.net>
- 12) Re: [Boatanchors] Atalanta Power  
by WA5CAB@cs.com
- 13) Ham Exams  
by Robert Lawson <w4rl@bellsouth.net>
- 14) Re: HP 200CD  
by "Arden Allen" <gumbear@pacbell.net>
- 15) Re: HP 200CD  
by wb3fau@att.net
- 16) SX-28 Restoration  
by RICHARD SOLOMON <w1ksz@q.com>
- 17) RE: HP 200CD  
by "Ed Zeranski" <ezeran@ezeran.cnc.net>

-----  
Message-ID: <6268321.1221183873767.JavaMail.root@mswamui-chipeau.atl.sa.earthlink.net>  
Date: Thu, 11 Sep 2008 18:44:33 -0700 (GMT-07:00)  
From: n6nae@ix.netcom.com  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: HP 200C/CD  
Mime-Version: 1.0  
Content-Type: text/plain; charset=UTF-8  
Content-Transfer-Encoding: 7bit

Greatest product made since the radio push button. I have a few around here. There's a web site with serial number to year chart, can't remember the URL right now. My two oldest are from 1949 and the range 1939 to 1941. The really old one looks homemade so maybe Bill and Dave made it in the garage. There's a bracket in it that clearly was filed to shape by hand. There's dark grey paint on every solder joint, cloth covered wiring, etc. The cognoscenti can tell the vintage by whether the power switch goes up/down or left/right. This one is a left/right with the little ball ended style toggle. It's a real wreck, missing the case, front panel and dial. But I preserve its remains anyway.

Grid current in the older designs will really mess up the performance. Select tubes for lowest grid current. They also have trouble oscillating around 60 hertz because it will try to phase lock to line noise and the output level goes nuts. One drove me nuts trying to solve that bug. A heater balance pot to a positive bias voltage helped, but it never did like working at 60.  
Richard

-----  
Message-ID: <001201c914be\$3cfd70\$259f480c@KB6NAX>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: HP 200C/CD  
Date: Fri, 12 Sep 2008 02:59:20 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="UTF-8"  
Content-Transfer-Encoding: 7bit

> .....They also have trouble oscillating around 60 hertz because it will try to phase lock to line noise and the output level goes nuts. ....

Probably the lack of shielding is also your problem. The tuning capacitor sits at very high impedance on the lowest frequency range making it sensitive to the 60 Hz electrostatic fields we are all immersed in except when we are parachuting over the north pole ;-)

Arden Allen

KB6NAX

-----  
Date: Fri, 12 Sep 2008 06:18:58 -0400 (EDT)  
From: stuck in 50s <polepeeg@aa4rm.ba-watch.org>  
Message-Id: <200809121018.m8CAIwbi011359@fracas.netboobie.org>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: HP 200CD

Horrible Heresy dept

Somewhere I have a 1939 Radio News on a "new phase-shift oscillator"

It may pre-date the HP200A.

If so the 1st HPs may be living proof of the old brokerage house John Houseman commercial spoof

"We make money the old fashion way, we steal it"

Marty aka AA4RM

-----  
Message-ID: <001801c914ce\$34d28480\$259f480c@KB6NAX>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: HP 200CD  
Date: Fri, 12 Sep 2008 04:53:38 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 8bit

> "We make money the old fashion way, we steal it"

Naaaaaahhhh! The HP 200's are not phase shift oscillators. They are RC frequency selective filter oscillators. An equivalent type is the T-notch filter oscillator († la Heathkit). They work the same way except the filters are in the opposite feedback paths. A phase shift oscillator involves a series of phase shifting RC's in the feedback path that result in the 180 degree phase reversal required for oscillation instead of utilizing amplifier grid-plate phase inversion. Remember, an RC network can theoretically only give you a 90 degree phase shift. Reality limits phase shift to less than 90 degrees. Three serial shifters will give you the necessary 180 degrees at some frequency (bear in mind the total phase shift is 360 degrees). The Wein bridge consists of a single-pole highpass filter

in series with a single-pole lowpass filter which allows a single frequency to pass from its mid point at 90 degrees of phase shift. The T-notch's function is the inverse.

Arden Allen  
KB6NAX

-----  
Message-ID: <48CAD18F.8020804@pacbell.net>  
Date: Fri, 12 Sep 2008 15:31:11 -0500  
From: Dan Arney <hankarn@pacbell.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>,  
Boatanchors List <boatanchors@mailman.qth.net>  
Subject: Re: [Boatanchors] Atalanta Power  
Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

Meir, or Gang,  
Do you have any info on the Phillips BX925A/16 receiver?  
I have one but no manual.

Thanks,  
Hank  
KN6DI

-----  
Message-ID: <00ec01c9152e\$3b67b120\$020fa8c0@KEN>  
From: "Ken" <n5cm@rtconline.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Ham exams.  
Date: Fri, 12 Sep 2008 16:21:05 -0700  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Fellows,

Bringing back old memories by all the comments prompts me to add my thoughts!

I was Ham licensed April 1938 and Commercial Radiotelegraph November 1938. Back then, there was no such thing as "Multiple Choice Exams"! That is almost like giving the applicant the license without him knowing anything about radio!

No kidding, anyone who can memorize questions and answers, not knowing anything about radio can pass the exam. The answers are there before him!

I don't remember how long it took me to complete the ham exam, but the Commercial Radiotelegraph took me almost two days to complete! No kidding! But, I made 91.6 %. I had the good fortune of attending a Maritime Radio School in New Orleans taught by a retired maritime radio operator. In those days, you had to know Spark, Electric Arc and Vacuum Tube Transmitters! Even tho Spark and Arc were outlowed for normal communications, the new requirement for ships was not only to convert to vacuum equipments but provide a separate emergency transmitter and receiver. The I.T.U. (International Telecommunications Union of which the U.S.A. is a signatory nation) allowed the shipping companys to retain their old spark or arc transmitters to serve as the emergency transmitter and had to have its own battery bank. The Spark or Arc transmitters were legal in actual emergencies.

By the way, don't scoff!, the emergency receiver was a crystal receiver with a galena crystal and catwisher detector assembly. While south of Iceland during WW2 in the winter and at night, I picked up several AM broadcast station on the east coast comfortable earphone volume. With the long inverted L antenna and the steel hull of the ship in salt water for a ground it was good reception. And, a ship in distress only needs to communicate with ships within range to render help.

Excuse this Ancient Mariner Sparks for sounding off!  
Take care,

Ken N5CM

--

I am using the free version of SPAMfighter for home users.  
SPAMfighter has removed 1509 spam emails to date.  
Paying users do not have this message in their emails.  
Get the free SPAMfighter here: <http://www.spamfighter.com/len>

-----  
Message-ID: <48CAE2B1.6060909@bellsouth.net>  
Date: Fri, 12 Sep 2008 16:44:17 -0500  
From: Robert Lawson <w4rl@bellsouth.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Ham exams.  
Content-Type: multipart/alternative;  
boundary="-----060402040508080707070708"

This is a multi-part message in MIME format.  
-----060402040508080707070708

Content-Type: text/plain; charset=ISO-8859-1; format=flowed  
Content-Transfer-Encoding: 7bit

N5 Charlie Mike, excuse nothing. That was interesting and from the OM himself.

Tell us more, Ken.

bst 73 Robert W4RL

Ken wrote:

> Hi Fellows,  
>  
> Bringing back old memories by all the comments prompts me to add my  
> thoughts!  
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> Back then, there was no such thing as "Multiple Choice Exams"! That is  
> almost  
> like giving the applicant the license without him knowing anything about  
> radio!  
> No kidding, anyone who can memorize questions and answers, not knowing  
> anything about radio can pass the exam. The answers are there before him!  
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> Commercial Radiotelegraph took me almost two days to complete! No  
> kidding! But, I made 91.6 %. I had the good fortune of attending a Maritime  
> Radio School in New Orleans taught by a retired maritime radio operator.  
> In those days, you had to know Spark, Electric Arc and Vacuum Tube  
> Transmitters! Even tho Spark and Arc were outlawed for normal  
> communications, the new requirement for ships was not only to convert  
> to vacuum equipments but provide a separate emergency transmitter and  
> receiver. The I.T.U. (International Telecommunications Union of which  
> the U.S.A. is a signatory nation) allowed the shipping companys to  
> retain their old spark or arc transmitters to serve as the emergency  
> transmitter and had to have its own battery bank. The Spark or Arc  
> transmitters  
> were legal in actual emergencies.  
>  
> By the way, don't scoff!, the emergency receiver was a crystal receiver with  
> a galena crystal and catwisher detector assembly. While south of Iceland  
> during WW2 in the winter and at night, I picked up several AM broadcast  
> station on the east coast comfortable earphone volume. With the long  
> inverted L antenna and the steel hull of the ship in salt water for a ground  
> it was good reception. And, a ship in distress only needs to communicate  
> with ships within range to render help.  
>  
> Excuse this Ancient Mariner Sparks for sounding off!  
> Take care,  
>  
> Ken N5CM

>  
>  
>

-----060402040508080707070708  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

-----060402040508080707070708--

-----  
Mime-Version: 1.0  
Message-Id: <p06240807c4f0a095b206@[192.168.1.2]>  
Date: Fri, 12 Sep 2008 15:44:31 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Scott Robinson <spr@earthlink.net>  
Subject: Re: [Boatanchors] Atalanta Power  
Cc: Old Tube Radios <boatanchors@theporch.com>,  
Boatanchors List <boatanchors@mailman.qth.net>  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Hi Hank,

Watch out for Philips' habit of melting wax into their RF and IF coils after alignment. If it were Grundig, whose alignment always seems good, it wouldn't much matter. But Philips radios seem to benefit from alignment, and you run a real risk of breaking the ferrite cores trying to break the wax loose. Of course, you can heat the can and turn the core, but then you have to wait for it to cool to see if you like the new setting...

Grumblegrumblegrumble.

/scott

At 3:31 PM -0500 9/12/08, Dan Arney wrote:  
>Meir, or Gang,  
>Do you have any info on the Phillips BX925A/16 receiver?  
>I have one but no manual.

>  
>Thanks,  
>Hank  
>KN6DI

-----  
From: WA5CAB@cs.com  
Message-ID: <cf2.3f927dd5.35fc5d47@cs.com>  
Date: Fri, 12 Sep 2008 20:03:19 EDT  
Subject: Re: [Boatanchors] Atalanta Power  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_cf2.3f927dd5.35fc5d47\_boundary"

--part1\_cf2.3f927dd5.35fc5d47\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

The BC-611-F which is the only model with slug tuned IF's, also had the slugs locked in place with bee's wax. And I've had to scrounge up replacement slugs quite often because someone else had tried to align without removing the wax. I came up with a way to easily remove the wax since I do many of the radios. I realize most of you may not have the same or equivalent equipment, but you might know someone else who does.

I have a Pace PPS-5 soldering-desoldering station, but others probably have similar capability. The desk station, which uses a vane pump, has the pump set up to either suck or blow. When I need to clean out the wax from some IF's, I first do a standard cleaning of the hand piece (you really don't want to blow molten solder into the transformer). Then I switch the tubing to the blow fitting, set the heat control to about 75%, warm it up and stick the tip down to the slug and blow. The hot air vaporizes the wax and blows it out.

In a message dated 9/12/2008 5:45:21 PM Central Daylight Time,  
spr@earthlink.net writes:

> Hi Hank,  
>  
> Watch out for Philips' habit of melting wax into their RF and IF  
> coils after alignment. If it were Grundig, whose alignment always  
> seems good, it wouldn't much matter. But Philips radios seem to  
> benefit from alignment, and you run a real risk of breaking the  
> ferrite cores trying to break the wax loose. Of course, you can heat  
> the can and turn the core, but then you have to wait for it to cool  
> to see if you like the new setting...  
>  
> Grumblegrumblegrumble.



>

Robert Downs - Houston  
wa5cab dot com (Web Store)  
MVPA 9480

--part1\_cf2.3f927dd5.35fc5d47\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

```
* * * * *
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*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
```

--part1\_cf2.3f927dd5.35fc5d47\_boundary--

-----  
Message-ID: <9D0C0237553A415787460C43BD3E03A5@gateway>  
From: "Sandy" <ebjr37@charter.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Ham exams.  
Date: Fri, 12 Sep 2008 19:33:41 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
 format=flowed;  
 charset="iso-8859-1";  
 reply-type=original  
Content-Transfer-Encoding: 7bit

Ken,  
Good to hear you are still OK after Gustav!

You got your tickets the year after I was born!

When was the heyday of the LF band (130-160 Khz about?) I think most of the operations there by ships was using the poulson arc rigs. My old boss at Mackay remembers the arc days, but I never got a chance to question him about that era.

By the time I got into marine radio, all the spark and arc was gone. There were still a few crystal receivers left but disused on board some of the older ships.

73,

Sandy W5TVW

----- Original Message -----

From: "Ken" <n5cm@rtconline.com>

To: "Old Tube Radios" <boatanchors@theporch.com>

Sent: Friday, September 12, 2008 6:21 PM

Subject: Ham exams.

> Hi Fellows,

>

> Bringing back old memories by all the comments prompts me to add my

> thoughts!

> I was Ham licensed April 1938 and Commercial Radiotelegraph November 1938.

> Back then, there was no such thing as "Multiple Choice Exams"! That is

> almost

> like giving the applicant the license without him knowing anything about

> radio!

> No kidding, anyone who can memorize questions and answers, not knowing

> anything about radio can pass the exam. The answers are there before him!

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> kidding! But, I made 91.6 %. I had the good fortune of attending a

> Maritime

> Radio School in New Orleans taught by a retired maritime radio operator.

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> Transmitters! Even tho Spark and Arc were outlawed for normal

> communications, the new requirement for ships was not only to convert

> to vacuum equipments but provide a separate emergency transmitter and

> receiver. The I.T.U. (International Telecommunications Union of which

> the U.S.A. is a signatory nation) allowed the shipping companys to

> retain their old spark or arc transmitters to serve as the emergency

> transmitter and had to have its own battery bank. The Spark or Arc

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> By the way, don't scoff!, the emergency receiver was a crystal receiver

> with

> a galena crystal and catwisher detector assembly. While south of Iceland

> during WW2 in the winter and at night, I picked up several AM broadcast

> station on the east coast comfortable earphone volume. With the long

> inverted L antenna and the steel hull of the ship in salt water for a

> ground

> it was good reception. And, a ship in distress only needs to communicate

> with ships within range to render help.

>

> Excuse this Ancient Mariner Sparks for sounding off!  
> Take care,  
>  
> Ken N5CM  
>  
>  
> --  
> I am using the free version of SPAMfighter for home users.  
> SPAMfighter has removed 1509 spam emails to date.  
> Paying users do not have this message in their emails.  
> Get the free SPAMfighter here: <http://www.spamfighter.com/len>  
>

-----  
  
No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.169 / Virus Database: 270.6.21/1669 - Release Date: 9/12/2008  
2:18 PM

-----  
Message-ID: <AF01A2655969489FBBC6574C566CDDD7@gateway>  
From: "Sandy" <ebjr37@charter.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: [Boatanchors] Atalanta Power  
Date: Fri, 12 Sep 2008 19:37:13 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
    format=flowed;  
    charset="iso-8859-1";  
    reply-type=original  
Content-Transfer-Encoding: 7bit

One method I used for loosening beeswax locked slugs was a small extension home-made tip for a Weller soldering gun from #14 bare wire. You had to "pulse" the trigger to avoid overheating the wax. Usually the wax stayed fluid long enough to make an alignment adjustment. That seemed to work great for me.

(You replaced the normal tip with the loop of #14 wire in this instance.)

73,

Sandy W5TVW

----- Original Message -----

From: <WA5CAB@cs.com>

To: "Old Tube Radios" <boatanchors@theporch.com>

Sent: Friday, September 12, 2008 7:03 PM

Subject: Re: [Boatanchors] Atalanta Power

> The BC-611-F which is the only model with slug tuned IF's, also had the  
> slugs  
> locked in place with bee's wax. And I've had to scrounge up replacement  
> slugs quite often because someone else had tried to align without removing  
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> radios. I realize most of you may not have the same or equivalent  
> equipment, but  
> you might know someone else who does.

>  
> I have a Pace PPS-5 soldering-desoldering station, but others probably  
> have  
> similar capability. The desk station, which uses a vane pump, has the  
> pump set  
> up to either suck or blow. When I need to clean out the wax from some  
> IF's,  
> I first do a standard cleaning of the hand piece (you really don't want to  
> blow molten solder into the transformer). Then I switch the tubing to the  
> blow  
> fitting, set the heat control to about 75%, warm it up and stick the tip  
> down  
> to the slug and blow. The hot air vaporizes the wax and blows it out.

>  
> In a message dated 9/12/2008 5:45:21 PM Central Daylight Time,  
> spr@earthlink.net writes:

>> Hi Hank,

>>

>> Watch out for Philips' habit of melting wax into their RF and IF  
>> coils after alignment. If it were Grundig, whose alignment always  
>> seems good, it wouldn't much matter. But Philips radios seem to  
>> benefit from alignment, and you run a real risk of breaking the  
>> ferrite cores trying to break the wax loose. Of course, you can heat  
>> the can and turn the core, but then you have to wait for it to cool  
>> to see if you like the new setting...

>>

>> Grumblegrumblegrumble.

>>

>

> Robert Downs - Houston

> wa5cab dot com (Web Store)

> MVPA 9480

>

-----  
No virus found in this incoming message.  
Checked by AVG - <http://www.avg.com>  
Version: 8.0.169 / Virus Database: 270.6.21/1669 - Release Date: 9/12/2008  
2:18 PM

-----  
From: WA5CAB@cs.com  
Message-ID: <d66.2e89203d.35fc83c4@cs.com>  
Date: Fri, 12 Sep 2008 22:47:32 EDT  
Subject: Re: [Boatanchors] Atalanta Power  
To: Old Tube Radios <boatanchors@theporch.com>  
MIME-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="part1\_d66.2e89203d.35fc83c4\_boundary"

--part1\_d66.2e89203d.35fc83c4\_boundary  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

I used to do the same thing with a 25 watt pencil iron and a modified tip and a box full of Q-tips. Worked about as well but took a lot longer than the backwards desoldering tool.

In a message dated 9/12/2008 7:38:10 PM Central Daylight Time,  
ebjr37@charter.net writes:  
> One method I used for loosening beeswax locked slugs was a small extension  
> home-made tip for a Weller soldering gun from #14 bare wire. You had to  
> "pulse" the trigger to avoid overheating the wax. Usually the wax stayed  
> fluid long enough to make an alignment adjustment. That seemed to work  
> great for me.  
>  
> (You replaced the normal tip with the loop of #14 wire in this instance.)

Robert Downs - Houston  
wa5cab dot com (Web Store)  
MVPA 9480

--part1\_d66.2e89203d.35fc83c4\_boundary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\* ---REMAINDER OF MESSAGE TRUNCATED--- \*  
\* This post contains a forbidden message format \*  
\* (such as an attached file, a v-card, HTML formatting) \*  
\* Mail Lists at theporch.com only accept PLAIN TEXT \*  
\* If your postings display this message your mail program \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting \*  
\* \* \* \* \*

--part1\_d66.2e89203d.35fc83c4\_boundary--

-----  
Message-ID: <48CB334D.7080202@bellsouth.net>  
Date: Fri, 12 Sep 2008 22:28:13 -0500  
From: Robert Lawson <w4rl@bellsouth.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Ham Exams  
Content-Type: multipart/alternative;  
boundary="-----060503050707050709010401"

This is a multi-part message in MIME format.

-----060503050707050709010401

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit

First licensed in Sept 1964 as a junior in high school as a novice with the callsign of WN4VDZ. Tested again in 1965 for Technician as my father would not let me skip a day from high school to travel to the FCC office in Mobile Alabama from Pensacola, Florida for General. Received the callsign WB4BSZ as Mr Vernon Colley W4QK gave me my test for Technician in his radio shack here in Pensacola. He was also my Sunday School teacher and being somewhat of serious nature, but kind. Very much old school. Obtained General at the FCC office Mobile, Al in 1970, and soon afterward Advance there. Yep, the examiner both times wore a thin black tie, white shirt, dark pants, and of course black framed glasses and a flat-top haircut. Didn't they all then? The office secretary who read aloud both times the pass/no pass list to us all had a personality that could have frozen tropical waters in summer.

Memories for this fella. Those time are no more and that's OK. Things change.

Robert W4RL

-----060503050707050709010401

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

```
* * * * *
*      ---REMAINDER OF MESSAGE TRUNCATED---      *
*      This post contains a forbidden message format      *
*      (such as an attached file, a v-card, HTML formatting) *
*      Mail Lists at theporch.com only accept PLAIN TEXT      *
*      If your postings display this message your mail program *
*      is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *
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-----060503050707050709010401--

-----  
Message-ID: <005a01c915e2\$fa2487a0\$6b9d480c@KB6NAX>  
From: "Arden Allen" <gumbear@pacbell.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: HP 200CD  
Date: Sat, 13 Sep 2008 13:54:50 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Perusing some of the Internet offerings about Hewlett Packard's early audio oscillators the phrase "resistance tuned oscillator" keeps cropping up. One finds it difficult to understand how a HP 200x oscillator employing a tuning capacitor to set the oscillator's frequency is "resistance tuned." Typical of blog-a-mania things get parroted by know-nothings banging away at keyboards. Brought to you by your friendly, helpful, "communications revolution"...

Arden Allen  
KB6NAX

-----  
From: wb3fau@att.net  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "Arden Allen" <gumbear@pacbell.net>  
Subject: Re: HP 200CD  
Date: Sat, 13 Sep 2008 22:32:48 +0000  
Message-Id:  
<091320082232.15231.48CC3F90000A25C600003B7F22216125569B0A02D29B9B0EBF9A0E00CC0D99@att.net>

Arden, I thought you knew everything- on the tuning cap, they are varying the resistance of the air between the plates!

-----  
Message-ID: <BAY130-W24771EA6379B0E27A6201DE0500@phx.gbl>  
Content-Type: multipart/alternative;  
    boundary="\_a8e3abf7-e8e0-48d2-8611-8253dd7e657c\_"  
From: RICHARD SOLOMON <w1ksz@q.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: SX-28 Restoration  
Date: Sat, 13 Sep 2008 22:37:06 +0000  
MIME-Version: 1.0

--\_a8e3abf7-e8e0-48d2-8611-8253dd7e657c\_  
Content-Type: text/plain; charset="iso-8859-1"  
Content-Transfer-Encoding: quoted-printable

The Crystal Phasing control shaft coupler had been broken so I don't know where it was set. How do I align the Knob with the Capacitor so that it works correctly ?

=20

Tnx=2C Dick=2C W1KSZ=

--\_a8e3abf7-e8e0-48d2-8611-8253dd7e657c\_  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

\* \* \* \* \*  
\*       ---REMAINDER OF MESSAGE TRUNCATED---       \*  
\*       This post contains a forbidden message format       \*  
\*   (such as an attached file, a v-card, HTML formatting)   \*  
\*   Mail Lists at theporch.com only accept PLAIN TEXT       \*  
\* If your postings display this message your mail program   \*  
\* is not set to send PLAIN TEXT ONLY and needs adjusting   \*  
\* \* \* \* \*

--\_a8e3abf7-e8e0-48d2-8611-8253dd7e657c\_--

-----  
From: "Ed Zeranski" <ezeran@ezeran.cnc.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: HP 200CD  
Date: Mon, 13 Oct 2008 15:50:40 -0700  
Message-ID: <EMEPKDEJDNHEMLEAHGKHIELMFFAA.ezeran@ezeran.cnc.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="Windows-1252"  
Content-Transfer-Encoding: 7bit

Been fun watching the 200\*\* posts! I have a couple of the flat face 200C units, a brown 200CD, and a couple of variants of the 205AG. The 205s are an



early wood case model and a later one that looks kinda like the HP-606 grey case. Originally I wanted the 'oval'200cd because its what I used years ago but the older 200 flat face was only \$5. The 205AG is the 200 with attitude and cajones. It was used for meaasurements on audio systems so has an output level meter and a volt meter for measuring the return signal. Also....with 6L6 output tubes the 205 kicks ckt butt. I've rebuilt a few for folks in the home and auto audio racket who use the 205 to test speakers, wiring, etc, just like the old days at radio stations.

EdZ KG6UTS

..back in Darmstadt for a few weeks

-----Original Message-----

From: owner-boatanchors@theporch.com

[mailto:owner-boatanchors@theporch.com]On Behalf Of Arden Allen

Sent: Saturday, September 13, 2008 1:55 PM

To: Old Tube Radios

Subject: Re: HP 200CD

Perusing some of the Internet offerings about Hewlett Packard's early audio oscillators the phrase "resistance tuned oscillator" keeps cropping up. One finds it difficult to understand how a HP 200x oscillator employing a tuning capacitor to set the oscillator's frequency is "resistance tuned." Typical of blog-a-mania things get parroted by know-nothings banging away at keyboards. Brought to you by your friendly, helpful, "communications revolution"...

Arden Allen

KB6NAX

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End of BOATANCHORS Digest 4208

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